#### STN Columbus

# DE10227995

## ANSWER 1 OF 2 CAPLUS:

ACCESSION NUMBER: 2003:757652 CAPLUS

DOCUMENT NUMBER: 139:262474

Method for the hydroformylation of olefins in the TITLE:

manufacture of C7-17 aliphatic alcohols using phase

separation

Toetsch, Walter; Arnoldi, Detlef; Kaizik, Alfred; INVENTOR (S):

Trocha, Martin

Oxeno Olefinchemie G.m.b.H., Germany PATENT ASSIGNEE(S):

Patent

SOURCE: PCT Int. Appl., 29 pp.

CODEN: PIXXD2

DOCUMENT TYPE:

German LANGUAGE:

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

	PATENT NO.						KIND DATE				APPLICATION NO.						DATE			
	WO 2003078365 WO 2003078365								WO 2003-EP2383						20030308					
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	AU 2003212316				A1	A1 20030929				AU 2003-212316					20030308					
	EP	1485	341			A2	A2 20041215				EP 2003-708195					20030308				
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A method is described for producing C7-17 aliph. alcs. which comprises the cobalt-catalyzed hydroformylation of C6-16 olefins or olefin mixts., using an aq. catalyst system, sepn. of the catalyst, and subsequent hydrogenation of the aldehydes to alcs. A liq.-liq. extn. is carried out after the sepn. of the catalyst in the aq. system and prior to the hydrogenation of the aldehydes in the org. system; process flow diagrams are presented.

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## ANSWER 2 OF 2 WPIX:

ACCESSION NUMBER:

2003-731977 [69] WPIX

DOC. NO. CPI:

C2003-201549

TITLE:

Process for the production of 7-17 C aliphatic alcohols comprises cobalt catalyzed hydroformylation of 3-16C olefins whereby the organic phase is extracted with a

water containing liquid.

DERWENT CLASS:

E17

INVENTOR (S):

ARNOLDI, D; KAIZIK, A; TOTSCH, W; TROCHA, M; TOETSCH, W (OXEN-N) OXENO OELFINCHEMIE GMBH; (OXEN-N) OXENO

PATENT ASSIGNEE(S):

OLEFINCHEMIE GMBH

COUNTRY COUNT:

PATENT INFORMATION:

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# APPLICATION DETAILS:

PATENT NO	KIND	APPLICATION	DATE
WO 2003078365	A2	WO 2003-EP2383	20030308
DE 10227995	A1	DE 2002-10227995	20020622
AU 2003212316	A1	AU 2003-212316	20030308
EP 1485341	A2	EP 2003-708195	20030308
		WO 2003-EP2383	20030308
US 2005171389	A1	WO 2003-EP2383	20030308
		US 2005-506603	20050308
TW 2003006293	A	TW 2003-105431	20030313
JP 2005529853	W	JP 2003-576374	20030308
01 200302700		WO 2003-EP2383	20030308
US 6960699	В2	WO 2003-EP2383	20030308
05 0500055		US 2005-506603	20050308
CN 1649815	A	CN 2003-809945	20030308
AU 2003212316	A8	AU 2003-212316	20030308
BR 2003008432	A	BR 2003-8432	20030308
DK 2003000132		WO 2003-EP2383	20030308

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### FILING DETAILS:

PATE	NT NO	KII	ND	]	PATENT NO				
AU 2	003212316	<b>A</b> 1	Based	on	WO	2003078365			
EP 1	485341	A2	Based	on	WO	2003078365			
JP 2	005529853	W	Based	on	WO	2003078365			
US 6	960699	B2	Based	on	WO	2003078365			
AU 2	003212316	<b>A8</b>	Based	on	WO	2003078365			
BR 2	003008432	Α	Based	on .	WO	2003078365			

PRIORITY APPLN. INFO: DE 2002-10227995 20020622; DE 2002-10211652 20020315

AN 2003-731977 [69] WPIX

AB W02003078365 A UPAB: 20031027

NOVELTY - A process for the production of 7-17 C aliphatic alcohols comprises cobalt catalyzed hydroformylation of 3-16C olefins whereby the organic phase is extracted with a water containing liquid.

DETAILED DESCRIPTION - A process for the production of 7-17 C aliphatic alcohols comprises:

- (a) cobalt catalyzed hydroformylation of 3-16C olefins;
- (b) treatment of the hydroformylation mixture with oxygen containing gases in the presence of acid, aqueous cobalt (II) salt solutions;
- (c) separation of the mixture from (B) into a cobalt salt containing aqueous phase and an aliphatic aldehyde containing organic phase;
  - (d) hydrogenation of the aldehyde containing organic phase whereby;
- (e) the organic phase from (C) is extracted with a water containing liquid.

USE - The process is useful for the production of 7-17C aliphatic alcohols by hydroformylation.

ADVANTAGE - The product form the process has a low residual cobalt catalyst content.

DESCRIPTION OF DRAWING(S) - The drawing is a schematic diagram of the process.

Hydroformylation reactor 1 Synthesis gas 2 Olefin mixture 3

Hydroformylation mixture 5 Catalyst separation 8

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